

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

NEW PANEL LP-1A
Specification 26 24 16

NEW NORMAL PANEL LP-1A, 120/208V, 3 PH, 4 WIRE, 120/208V, 3 PH, 4 WIRE, 100 A, COPPER BUS WITH 100A MAIN CIRCUIT BREAKER. BOLT ON CIRCUIT BREAKERS. SURFACE MOUNTED. MIN INTERRUPTED RATING: 22 KAISC, LOCATION: ROOM 178A, NEMA 1 ENCLOSURE									
Ckt No.	Room #	Ckt breaker rating/ Pole	Connected Load VA			Ckt breaker rating/ Pole	Room #	Ckt No.	
			A	B	C				
1	L: ROOMS 138, 138A, 138B, 139, 140, 141, 142, 145, 146, 148, 148A, 148B, 150	20/1	1120				L: ROOMS 175, 173, 172A, 172, 171, 170, 1-E1 West, 1-E2	2	
3	R: Rooms 138	20/1	940	800		20/1	R: Room 175 west	4	
			600		20/1				
5	R: Rooms 138A	20/1			800		R: Room 175 east	6	
				800	20/1				
7	R: Rooms 138B	20/1	800				R: Room 173	8	
			800		20/1				
9	R: Room 139	20/1		400			R: Room 172A	10	
				800	20/1				
11	R: Refrigerator 139	20/1			1200		R: Room 172	12	
				400	20/1				
13	R: Room 139 Microwave	20/1	1200				R: Room 171	14	
			800		20/1				
15	R: Room 140	20/1		800			R: Room 170	16	
				800	20/1				
17	R: Room 141	20/1			800		R: Room 1E1 Corridor West	18	
				600	20/1				
19	R: Room 142	20/1	800				R: Room 1E2 Corridor	20	
			600		20/1				
21	R: Rooms 144, 145			600			R: Room 146	22	
				600	20/1				
23	R: Room 148				400		spare	24	

25	R: Room 148A	20/1	600				spare	26	
			----		20/1				
27	R: Room 148B	20/1		1000			spare	28	
				----	20/1				
29	R: Room 150	20/1			800		spare	30	
					----	20/1			
31	spare	20/1	----				spare	32	
			----		20/1				
33	spare	20/1		----			spare	34	
				----	20/1				
35	spare	20/1			----		spare	36	
					----	20/1			
37	spare	20/1	----				spare	38	
			----		20/1				
39	spare	20/1		----			spare	40	
				----	20/1				
41	spare	20/1			----		spare	42	
					----	20/1			
			7660	6400	5800				
			19860						
PHASE A	7.66	KVA	TOTAL LOAD		19.86	KVA			
PHASE B	6.40	KVA	TOTAL DEMAND						
PHASE C	5.80	KVA	LOAD						
NOTES									
L: Lights									
R: Recptacles									

NEW PANEL LP-1B
Specification 26 24 16

NEW NORMAL PANEL LP-1B, 120/208V, 3 PH, 4 WIRE, 120/208V, 3 PH, 4 WIRE, 100 A, COPPER BUS WITH 100A MAIN CIRCUIT BREAKER. BOLT ON CIRCUIT BREAKERS. SURFACE MOUNTED. MIN INTERRUPTED RATING: 22 KAISC, LOCATION: ROOM 178A, NEMA 1 ENCLOSURE									
Ckt No.	Room #	Ckt breaker rating/ Pole	Connected Load VA			Ckt breaker rating/ Pole	Room #	Ckt No.	
			A	B	C				
1	L: ROOMS 152, 153, 154, 154A, 155, 156, 157, 158, 158A, 159, 160	20/1	352				L: ROOMS 1E-1 EAST, 169A, 169, 168, 167, 166, 165, 164, 163, 162A, 162, 161	2	
3	R: Rooms 151 and 152	20/1	440	600		20/1	R: Room 169A	4	
5	R: Room 153	20/1		400	800	20/1	R: Room 169	6	
7	R: Room 154	20/1	800		800		R: Room 168	8	
9	R: Room 154A	20/1	800			20/1	R: Room 167	10	
11	R: Room 155	20/1			800		R: Room 166	12	
13	R: Room 156	20/1	800		400	20/1	R: Room 165	14	
15	R: Room 157	20/1		800	400	20/1	R: Room 164	16	
17	R: Room 158	20/1			800	400	R: Room 163	18	
19	R: Room 158A	20/1	800			20/1	R: Room 162A	20	
21	R: Room 159			600			R: Room 162	22	
23	R: Room 160				600		R: Room 161	24	
25	R: Room 1E-1 Corridor - Central	20/1	600			20/1	R: Room 1E-1 Corridor - East	26	
27	HU-1	20/1		1200			ET-1, 0.6 kw, 16.2 STARTING, 2.7 FLA Mech Room 48	28	
29	spare	20/1					spare	30	
31	spare	20/1					spare	32	
33	spare	20/1					spare	34	
35	spare	20/1					spare	36	
37	spare	20/1					spare	38	
39	spare	20/1					spare	40	
41	spare	20/1					spare	42	
			6592	6524	5400				
			18516						
PHASE A	6.59	KVA	TOTAL LOAD		18.52	KVA			
PHASE B	6.52	KVA	TOTAL DEMAND						
PHASE C	5.40	KVA	LOAD						
NOTES									
L: Lights									
R: Receptacles									

NEW PANEL CR1D
Specification 26 24 16

NEW EMERGENCY PANEL CR1D, 120/208V, 3 PH, 4 WIRE, 100 A, COPPER BUS WITH 100A MAIN CIRCUIT BREAKER. BOLT ON CIRCUIT BREAKERS. SURFACE MOUNTED. MIN INTERRUPTED RATING: 22 KAISC, LOCATION: ROOM 147A, NEMA 1 ENCLOSURE									
Ckt No.	Room #	Ckt breaker rating/ Pole	Connected Load VA			Ckt breaker rating/ Pole	Room #	Ckt No.	
			A	B	C				
1	L: ROOMS 139, 140, 143, 144, 145, 146, 147, 147A, 148, 148A, 148B, 149, 150	20/1	1223				L: ROOMS 175, 174, 172A, 172, 171		
3	L: ROOMS 154, 154A, 155, 156, 157, 158, 158A	20/1	264			20/1	L: ROOMS 169A, 169, 168, 167, 162A, 162, 161, 164	2	
5	R: Rooms 138B, 139, 140	20/1			600		R: Pyxis machine 174		
7	R: Rooms 141, 142	20/1	400		400	20/1	R: Pyxis Refridgerator mini 174	6	
9	R: Rooms 143, 144, 145	20/1	300			20/1	R: Room 173	8	
11	R: Room 148A	20/1		600	200	20/1	R: Room 172A	10	
13	R: Room 148B	20/1	400		400	20/1	R: Room 172	12	
15	R: Room 149	20/1	400			20/1	R: Room 171	14	
17	R: Room 152	20/1		200	400	20/1	R: Room 170	16	
19	R: Room 153	20/1			400	20/1	R: Room 169A	18	
21	R: Room 154	20/1		400		20/1	R: Room 169	20	
23	R: Room 154A	20/1			400	20/1	R: Room 168	22	
25	R: Room 155	20/1	400			20/1	R: crash cart	24	
27	R: Room 156	20/1	200			20/1	R: Room 167	26	
29	R: Room 157	20/1		400		20/1	R: Room 166	28	
31	R: Room 158	20/1			400	20/1	R: Room 164	30	
33	R: Room 158A	20/1	400			20/1	R: Room 163	32	
35	PRINTER ALCOVE R: 160A	20/1		400	600	20/1	R: Room 162A	34	
37	PANEL CR1DA	20/1	1422		400	20/1	R: Room 162	36	
39		20/1	400			20/1	R: Room 161	38	
41		20/1		1622		20/1	R: Rooms 138, 138A	40	
					480				
				6809	6482	6080	20/1		42
				19371					
PHASE A	6.81	KVA	TOTAL LOAD		19.37	KVA			
PHASE B	6.48	KVA	TOTAL DEMAND						
PHASE C	6.08	KVA	LOAD						
NOTES									
L: Lights									
R: Recptacles									

NEW PANEL 1-HE1
Specification 26 24 16

NEW EQUIPMENT DISTRIBUTION PANEL 1-HE1, 277/480 VOLTS, 3 PH, 4 WIRE, 125 A, COPPER BUS. BOLT ON CIRCUIT BREAKERS. SURFACE MOUNTED. MIN SHORT CIRCUIT RATING: 22 KAISC, LOCATION: ROOM 148A, NEMA 1 ENCLOSURE									
Ckt No.	Room/Equipment #	Ckt breaker rating/	Connected Load VA			Ckt breaker rating/ Pole	Room/Equip ment #	Ckt No.	
			A	B	C				
1	AHU-1E1 SUPPLY FAN, SF1E1, 30 HP, 44 FLA	90/3	12188	-----	-----		Chilled Water Pump CHP-1A, 5 HP, 7.6 FLA	2	
3	AHU-1E1 RETURN FAN, RF1-E1, 15 HP, 23 FLA	50/3	2105.2	-----	-----	15/3	Chilled Water Pump CHP-1B, 5 HP, 7.6 FLA	4	
5	Hot Water Heating Pumps HWP-1A, 2 HP, 3.4 FLA	15/3	6371	-----	-----	15/3	Hot Water Heating Pumps HWP-1B 2 HP, 3.40 FLA	6	
7			2105.2	-----	-----	15/3			
9			941.8	-----	-----	15/3			
11			941.8	-----	-----	15/3			
13			941.8	-----	-----	15/3			
15			941.8	-----	-----	15/3			
17			941.8	-----	-----	15/3			
19			941.8	-----	-----	15/3			
21			941.8	-----	-----	15/3			
23			941.8	-----	-----	15/3			
25			941.8	-----	-----	15/3			
27			941.8	-----	-----	15/3			
29			941.8	-----	-----	15/3			
31			941.8	-----	-----	15/3			
33			941.8	-----	-----	15/3			
35			941.8	-----	-----	15/3			
37			941.8	-----	-----	15/3			
39			941.8	-----	-----	15/3			
41			941.8	-----	-----	15/3			
43			941.8	-----	-----	15/3			
45			941.8	-----	-----	15/3			
47			941.8	-----	-----	15/3			
49			941.8	-----	-----	15/3			
51			941.8	-----	-----	15/3			
53			941.8	-----	-----	15/3			
55			941.8	-----	-----	15/3			
57			941.8	-----	-----	15/3			
59			941.8	-----	-----	15/3			
61			941.8	-----	-----	15/3			
63			941.8	-----	-----	15/3			
65			941.8	-----	-----	15/3			
67			941.8	-----	-----	15/3			
69			941.8	-----	-----	15/3			
71			941.8	-----	-----	15/3			
73			941.8	-----	-----	15/3			
75			941.8	-----	-----	15/3			
77			941.8	-----	-----	15/3			

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one inch = one foot
one half inch = one foot
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three eighths inch = one foot
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one eighth inch = one foot
one eighth inch = one foot

OCCUPANCY SENSOR SCHEDULES				
ITEM	ITEM DESCRIPTION	MANUFACTURER	NOTES	REMARKS
PC-1	OCCUPANCY SENSOR CEILING MOUNTED PHOTOCELL SENSOR	LEVITON OSC04-10W, CELING MOUNTED, HIGH DENSITY, ULTRA SONIC, PIR, 450 SQ FT OR APPROVED EQUAL.	CONTRACTOR TO FOLLOW RECOMMENDED WIRING AND INSTALLATION INSTRUCTIONS PER MANUFACTURER	QUANTITY AND LOCATION PER THE DESIGN DRAWINGS
PC-2	OCCUPANCY SENSOR WALL SWITCH	LEVITON OSSMT WALL SWITCH MULTI-TECHNOLOGY DECORA-STYLE , ULTRA-SONIC OR APPROVED EQUAL.	CONTRACTOR TO FOLLOW RECOMMENDED WIRING AND INSTALLATION INSTRUCTIONS PER MANUFACTURER	QUANTITY AND LOCATION PER THE DESIGN DRAWINGS
PC-2	OCCUPANCY SENSOR POWER PACK	LEVITON OSP20-0D0, POWER PACK FOR 120/230/277 VAC SYSTEM OR APPROVED EQUAL.	CONTRACTOR TO FOLLOW RECOMMENDED WIRING AND INSTALLATION INSTRUCTIONS PER MANUFACTURER	QUANTITY AND LOCATION PER THE DESIGN DRAWINGS

LIGHTING SCHEDULE AND SPECIFICATIONS 26 51 00			
ITEM	ITEM DESCRIPTION	MANUFACTURER	NOTES
L-1	2' x 4' recessed LED lighting fixture - normal	RECESSED LED TROFFER LIGHT FIXTURE, 44W 4000 LUMENS=90LPW, 3500 Kelvin, 120-277 volt(standard), S-step dimming to 50% ,, CREE - CR24-40L-35K-S OR APPROVED EQUAL.	
L-2	2' x 4' recessed LED lighting fixture - EMERGENCY	SAME AS L-1 BUT ON EMERGENCY, CREE - CR24-40L-35K-S OR APPROVED EQUAL.	
L-3	2' x 2' recessed LED lighting fixture - Normal	RECESSED LED TROFFER LIGHT FIXTURE, 35W 3200 LUMENS=90LPW, 4000 Kelvin, 120-277 volt(standard), step dimming to 50% , CREE - CR22-32L-40K-S OR APPROVED EQUAL.	
L-4	wall mounted task light - LED	WALL MOUNT, SAU=SATIN ALUMINUM, 35=3500 K, 120V, 20 W, LOL CDL35SAU OR APPROVED EQUAL.	
L-5	EXIT LIGHT - LED	EXIT LIGHT LED-AC: EMERGENCY AC OPERATION ONLY, FACE STENCIL, FACING (SEE REMARKS) - R= RED LETTER COLORS- W HOUSING FINISH-VOLTAGE:120VAC - LOL LT-A--', R, W, FA OR APPROVED EQUAL.	CONTRACTOR TO SPECIFY NUMBER OF FACE PANEL, COLOR TO MATCH EXISTING BUILDING WIDE HOSPITAL. CONTRACTOR TO SPECIFY FACEPLATES PER THE DRAWING.
L-6	1' x 4' general duty lighting high bay fixture -LED	4 FT LONG LED, 120 VOLTS, 44W 4000 LUMENS=90 LPW, 4000 KELVIN, STEP DIMMING TO 50% , EMERGENCY BACKUP TO 1400 LUMEN - CR-LE-40L-40K-S-EB14 CREE OR APPROVED EQUAL	SUPPLY WITH FIXTURE HOOKS-AND SUSPEND FROM BEAMS 3 FT DOWN TO THE FLOOR WITH CHAIN HOOK AND CHAIN SET
L-7	DOWNLIGHT RECESSED CAN LIGHTS - LED	RECESSED CAN LIGHTS LED LR6 6" ROUND RECESSED LED DOWNLIGHT WITH INTEGRAL DRIVER, LEDC60-650 (12W, 650 LUMEN, CREE LR6 LED MODULE)-GU24 LAMP BASE, 3500 K LAMP COLOR TEMPERATURE- RWT (RIBBED WHITE TRIM) - VOLTAGE 120V, CREE LR6C-GU24 OR APPROVED EQUAL.	
L-8	WALL MOUNTED CORRIDOR - LED	WALL MOUNT, WHU=WHITE, SAU=SATIN ALUMINUM, 35=3500 K, 120V, 20 W, PHILIP LIGHTOLIER LOL -CDL35WH OR APPROVED EQUAL.	SPECIFY ACCESSORIES PER ARCHITECTURAL AND VA INTERIOR DESIGN.

LIGHTING LEGEND	
	EXISTING LIGHT FIXTURE
	NEW LIGHT FIXTURE IN NEW GRID SYSTEM
	JUNCTION BOX IN CEILING - NUMBER SIGNIFIES CIRCUIT NUMBER STRING OF LIGHTS ARE ON
	HOMERUN JUNCTION BOX TO DESIGNATED PANEL

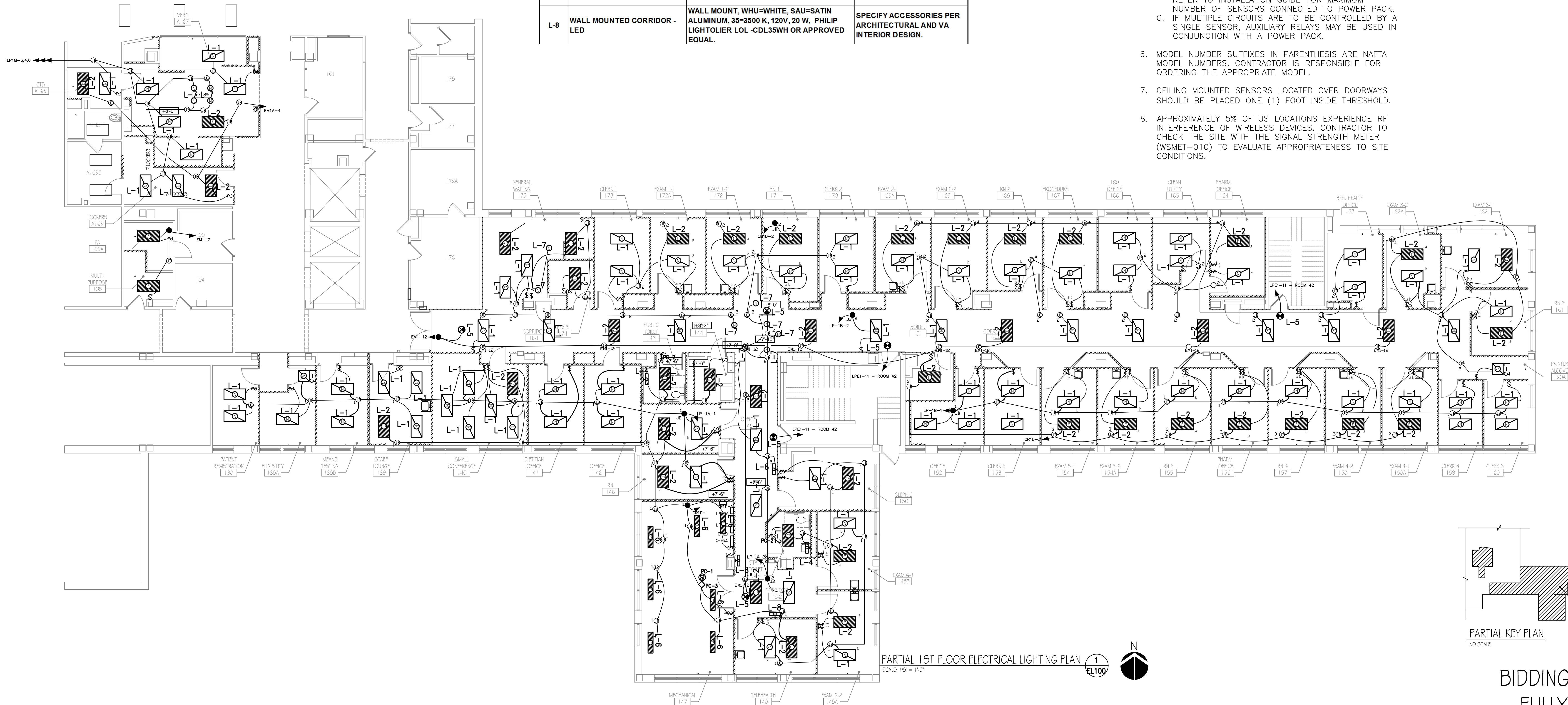
OCCUPANCY SENSOR NOTES (PC-#):

- ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS. SEE MECHANICAL HVAC DRAWINGS.
- TROUGH MOUNTED, PENDANT MOUNTED AND PENDANT MOUNTED INDIRECT LIGHTING SOURCES AFFECT THE OPERATION OF LOCALLY MOUNTED SENSORS. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING SENSOR LOCATIONS TO ALLOW FOR PROPER OPERATION.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR NON-ADAPTIVE PRODUCTS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:
 - ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
 - EACH POWER PACK CAN SUPPLY UP TO 150MA. REFER TO INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO POWER PACK.
 - IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR, AUXILIARY RELAYS MAY BE USED IN CONJUNCTION WITH A POWER PACK.
- MODEL NUMBER SUFFIXES IN PARENTHESIS ARE NAFTA MODEL NUMBERS. CONTRACTOR IS RESPONSIBLE FOR ORDERING THE APPROPRIATE MODEL.
- CEILING MOUNTED SENSORS LOCATED OVER DOORWAYS SHOULD BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
- APPROXIMATELY 5% OF US LOCATIONS EXPERIENCE RF INTERFERENCE OF WIRELESS DEVICES. CONTRACTOR TO CHECK THE SITE WITH THE SIGNAL STRENGTH METER (WSMET-010) TO EVALUATE APPROPRIATENESS TO SITE CONDITIONS.

- GENERAL NOTES
- SEE SHEET EL-600 FOR LIGHTING SCHEDULE.
 - SEE SHEET G-004 FOR SYMBOLS, ABBREVIATIONS AND NOTES
 - ALL FINAL QUANTITIES, LOCATIONS AND ARRANGEMENTS OF INTERIOR LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN DRAWING AS-121.
 - ALL FINAL GENERAL LIGHTING AS WELL AS ACCENT LIGHTING FIXTURE TYPES AND COLORS SHALL BE COORDINATED WITH THE ARCHITECT AND THE VA INTERIOR DESIGNER.
 - SWITCHES FOR EXAM ROOMS INDICATED WITH a,b SHALL SWITCH RESPECTIVE LIGHT FIXTURES INDICATED WITH a OR b
 - JUNCTION BOXES SHALL BE LABELED WITH PANEL NAME AND CIRCUIT ON INSIDE OF BOX
 - JUNCTION BOX COVERS SHALL BE LABELED WITH PANEL NAME AND CIRCUIT NUMBER

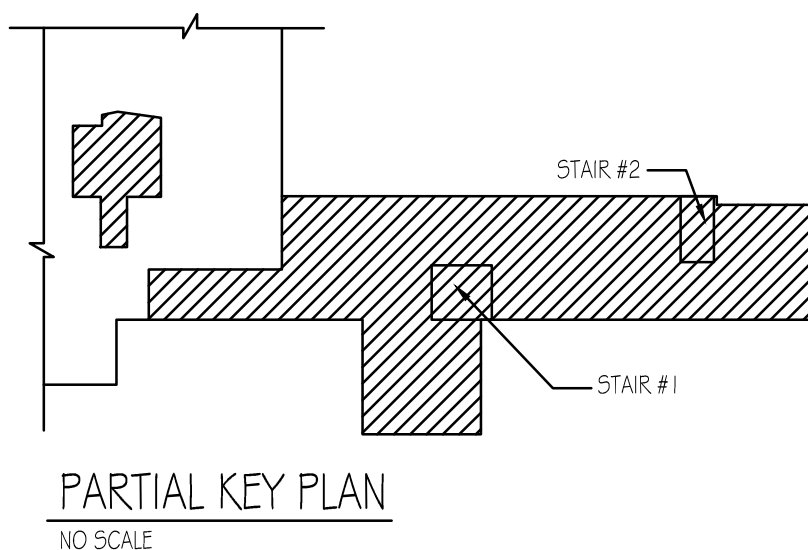
DETAIL REFERENCE

- 3
EP-500
TYPICAL L-5 INSTALLATION
- 4
EP500
TYPICAL L-1, L-2 INSTALLATION
- 5
EP500
TYPICAL L-7 INSTALLATION



PARTIAL 1ST FLOOR ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

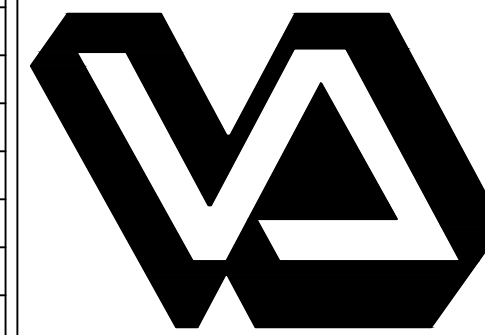
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EL100



PARTIAL KEY PLAN
NO SCALE

BIDDING DOCUMENTS
FULLY SPRINKLERED

BIDDING DOCUMENTS	05/27/2013
Revisions:	Date:



VA Northern Indiana
Health Care System,
Fort Wayne
2121 Lake Ave., Fort Wayne
IN 46805

CONSULTANTS:
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Munster, IN 46321
(219) 836-2120 Fax (219) 836-1129

Approved: Medical Center Director
NAME: _____
SIGNATURE: _____
Approved: Medical Center Associate Director
NAME: _____
SIGNATURE: _____

Drawing Title
ELECTRICAL FLOOR LIGHTING PLAN
Approved: Engineering Service
NAME: _____ SIGNATURE: _____
Approved: Project Director
NAME: _____ SIGNATURE: _____

Project Title
Renovate First Floor East Wing
for PACT
Location
2121 Lake Ave., Fort Wayne, IN 46805
Date
03/27/2013
Checked
J5
Drawn
D5

Project Number
610A4-12-107
Building Number
01
Drawing Number
EL-100
Dwg. 52 of 58

Office of
Construction
and Facilities
Management
Department of
Veterans Affairs

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one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
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one eighth inch = one foot

ITEM SCHEDULE

ITEM	ITEM DESCRIPTION	MANUFACTURER
T-1	Wall Type Outlet	PASS AND SEYMOUR OR EQUAL
TD-1	DATA/VOICE COMBO	PASS AND SEYMOUR OR EQUAL
V-1	Video wall type	PASS AND SEYMOUR OR EQUAL
D-2	data/video mounted 6" AFF	PASS AND SEYMOUR OR EQUAL
S-1	Paging System Speaker	VALCOM S-522A-2 W/V-TBAR or Equal
S-2	Door operator contact - push pad	Preferred Windows and Doors or Equal

LEGEND

T-1	OUTLET TELEPHONE; LETTER INDICATES AS FOLLOWS: J = JACK TYPE W = WALL TYPE
D-2	DATA OUTLET MOUNTED 1/8" OR 60" TO CENTER AFF UNLESS OTHERWISE NOTED
V-1	OUTLET; LETTER INDICATES AS FOLLOWS: A = AUDIO V = VIDEO I = INTERCOM
TD-1	OUTLET, COMBINATION DATA/VOICE COMMUNICATION MOUNTED 1/8" TO CENTER AFF UNLESS OTHERWISE NOTED
TA-1	CHECKPOINT TEMPERATURE AND HUMIDITY ALARM - VA PROVIDED, CONTRACTOR INSTALLED

SAFETY AND SECURITY SYMBOLS

W	PUSH PAD; LETTER INDICATES AS FOLLOWS: M=MOUNT C=CEILING D=DESK F=FLUSH H=HIDDEN M=MULLION P=PEDESTAL R=RACK S=SURFACE W=WALL T=TECHNOLOGY/TYPE B=BELL PUSH D=DURESS P=PANIC R=DOOR RELEASE X=REQUEST-FOR-EXIT
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GENERAL NOTES:

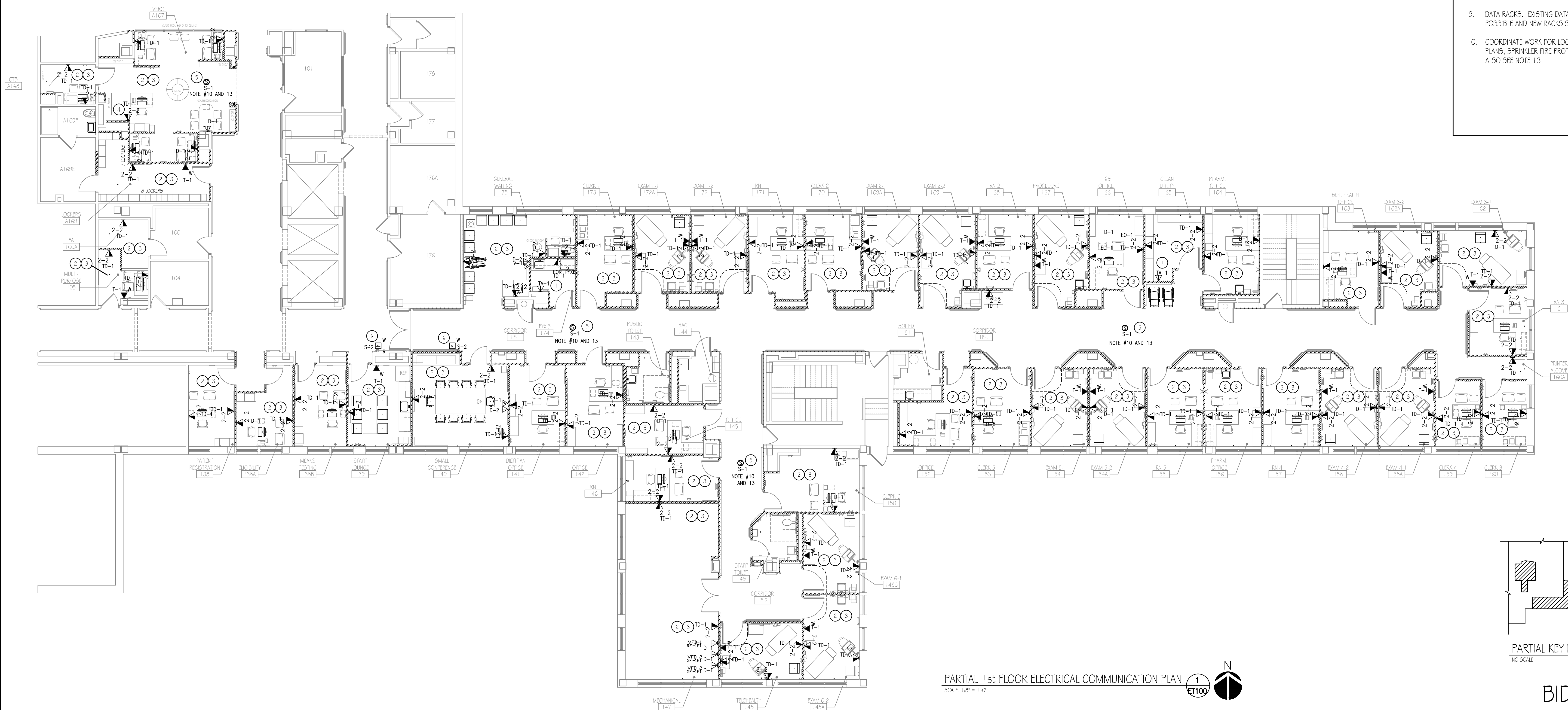
1. PROVIDE 3/4" C STUB WITH PULL STRING FROM WALL BOX TO 1/2" ABOVE ACCESSIBLE CEILING TO WITHIN 48" OF J-HOOK LINE. EACH DROP LOCATION SHALL CONSIST OF 4" SQUARE BOX WITH SINGLE GANG PLASTER RING.
2. PROVIDE 4' X 4' BACK BOX WITH SINGLE GANG PLASTER RING FOR EACH DATA/TELEPHONE DROP LOCATION. DROP LOCATION SHALL BE POSITIONED ADJACENT TO RECEPTACLES INDICATED ON POWER PLANS DRAWING EP100.
3. PROVIDE AND INSTALL 70V, 5W MAXIMUM, 8" SPEAKERS WITH 2C, 14GA SHIELDED SPEAKER CABLE. PROVIDE COMPLETE CONNECTION. CONTRACTOR SHALL INSTALL ALL REQUIRED COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM. CONNECT TO EXISTING HOSPITAL WIDE PAGING SYSTEM.
4. ALL VIDEO FEEDS SHALL BE FEED BACK TO EXISTING VIDEO ANTENNA SYSTEM LOCATED IN THE EXISTING TELEPHONE ROOM 176A.

PLAN NOTES:

1. CONTRACTOR TO INSTALL TEMPERATURE AND HUMIDITY ALARM IN LOCATIONS SHOWN ON THE PLAN. THIS SYSTEM IS BY CHECKPOINT SYSTEMS AND IS A WIRELESS BASED. VA DIO MED WILL PROVIDE THE EQUIPMENT AND DIRECTION TO THE CONTRACTOR. CONTRACTOR TO VERIFY PRIOR TO BID.
2. INSTALL NEW OUTLETS AS SHOWN IN LOCATIONS PROVIDED ON THE PLAN.
3. INSTALL NEW CABLE FROM ROOM OUTLETS TO CORRIDOR CABLE TRAYS.
4. PROVIDE RACEWAY WIRE MOLD AND 6FT PLUG STRIP FOR COMPUTER LOCATED IN VERC 167
5. INSTALL SPEAKERS IN LOCATIONS SHOWN. SEE NOTE 10
6. INSTALL PUSH PAD AUTOMATIC DOOR OPERATORS IN LOCATION SHOWN. VERIFY WITH ARCHITECTURAL PLANS AND POWER PLANS
7. FURNISH, AND INSTALL ANY OTHER ITEM REQUIRED TO COMPLETE THE INTENDED WORK PER SPECIFICATIONS AND DRAWINGS ELSEWHERE.

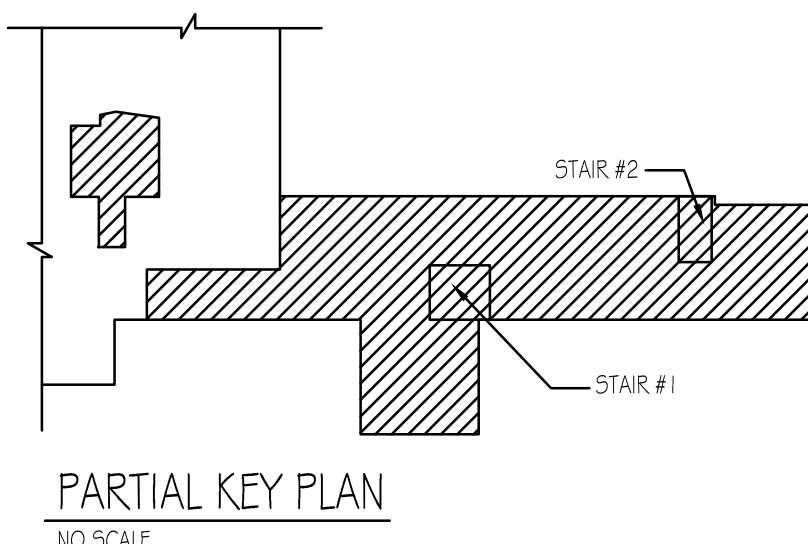
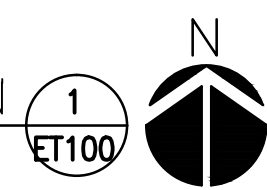
GENERAL NOTES:

1. CABLING SHOULD BE INSTALLED ACCORDING TO EIA TIA 568A AND BICSI STANDARDS. HORIZONTAL ORGANIZERS SHALL BE INSTALLED BETWEEN EACH PATCH PANEL AND 1 VERTICAL ORGANIZER SHALL BE INSTALLED ON THE RIGHT SIDE. ALL CABLING SHALL BE TESTED AND CERTIFIED.
2. VOICE CABLING SHALL BE TERMINATED ON 66M BLOCKS IN THE DATA CLOSET AND THE DATA CABLING SHALL BE TERMINATED ON PATCH PANELS IN THE DATA CLOSET WITH A MINIMUM CAT6 RATING.
3. OUTLET LOCATIONS. INSTALL QUANTITY AND ARRANGEMENT AS SHOWN ON DRAWING.
4. JACKS. THE STANDARD FACEPLATES ARE TO BE QUAD OUTLET, WHERE THE TWO DATA CABLES OCCUPY THE BOTTOM TWO JACKS AND THE VOICE CABLE IS SPLIT INTO TWO LINES AND OCCUPIES THE TOP TWO JACKS. THE VOICE CABLE IS TO BE SPLIT USING THE WHITE BLUE AND THE WHITE ORANGE FOR ONE JACK AND THE WHITE GREEN AND THE WHITE BROWN INTO THE OTHER JACK, IN ACCORDANCE WITH DETAIL 1/ET-500. THE JACKS AND FACEPLATES ARE TO BE COMMSCOPE/SYSTEMAX. CABLES TO BE BY COMMSCOPE/SYSTEMAX OR APPROVED EQUAL.
5. NUMBERING SCHEME. EACH CABLE SHALL HAVE ITS OWN NUMBER AND BE LABELED ACCORDING TO VA OMT DIRECTIONS. NUMBERING IS TO CONTINUE WITH THE NEXT SEQUENTIAL NUMBER AVAILABLE FROM THE EXISTING CABLE NUMBERS IN THE TERMINATION CLOSET AND MAY CONTAIN LETTER SUFFIXES WHERE APPROPRIATE. LABELING SHALL BE DISPLAYED ON THE FACEPLATE AS CLOSE TO THE ACTUAL JACK AS POSSIBLE. SEE DETAIL 1/ET-500.
6. PATCH PANELS. EXISTING PATCH PANELS ARE TO BE USED WHENEVER POSSIBLE. A LOWER CAT RATING PATCH PANEL MAY EXIST AND THE SELECTED CONTRACTOR IS TO IDENTIFY AND ADVISE THE VA. IF NEW MATERIAL IS REQUIRED THE CONTRACTOR SHALL PROVIDE AND INSTALL MATERIAL CAN BE EITHER COMMSCOPE/SYSTEMAX OR EQUAL QUALITY WITH CAT 6 OR HIGHER RATING.
7. TESTING AND CERTIFICATIONS. ALL DATA CABLING WHETHER MOVED OR INSTALLED NEW IS TO BE TESTED AND CERTIFIED TO THE CAT RATING APPLICABLE. VOICE CABLING IS NOT REQUIRED TO BE CERTIFIED AS CAT RATING, BUT MUST BE WIRE MAP TESTED. ALL DOCUMENTATION IS TO BE PROVIDED SOFTCOPY AS HARDCOPY IS NO LONGER DESIRED.
8. WIRE MANAGEMENT. EXISTING VERTICAL AND HORIZONTAL ORGANIZERS ARE TO BE USED WHENEVER POSSIBLE. IF NEW MATERIAL IS REQUIRED THE CONTRACTOR SHALL PROVIDE AND INSTALL DATA RACKS SHALL HAVE VERTICAL AND HORIZONTAL ORGANIZERS AFFIXED.
9. DATA RACKS. EXISTING DATA RACKS LOCATED IN ROOM 176A ARE TO BE USED WHERE POSSIBLE AND NEW RACKS SHALL BE 19" X 84" AND ANCHORED TO THE FLOOR.
10. COORDINATE WORK FOR LOCATIONS OF SPEAKERS WITH THE LIGHTING PLAN, MECHANICAL PLANS, SPRINKLER FIRE PROTECTION PLANS AND ARCHITECTURAL REFLECTED CEILING PLAN. ALSO SEE NOTE 13



PARTIAL 1st FLOOR ELECTRICAL COMMUNICATION PLAN

SCALE: 1/8" = 1'-0"



BIDDING DOCUMENTS
FULLY SPRINKLERED

BIDDING DOCUMENTS	03/27/2013
Revisions	Date



VA Northern Indiana
Health Care System,
Fort Wayne
2121 Lake Ave., Fort Wayne
IN 46805

CONSULTANTS:

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Munster, IN 46321
(219) 836-2120 Fax (219) 836-1129

Approved: Medical Center Director

NAME: _____

SIGNATURE: _____

Approved: Medical Center Associate Director

NAME: _____

SIGNATURE: _____

Drawing Title

ELECTRICAL DATA AND COMMUNICATION

Approved: Engineering Service

NAME: _____

Approved: Project Director

NAME: _____

Project Title

Renovate First Floor East Wing
for PACT

Location

2121 Lake Ave., Fort Wayne, IN 46805

Date

03/27/2013

Checked

J5

Drawn

D5

Project Number

610A4-12-107

Building Number

01

Drawing Number

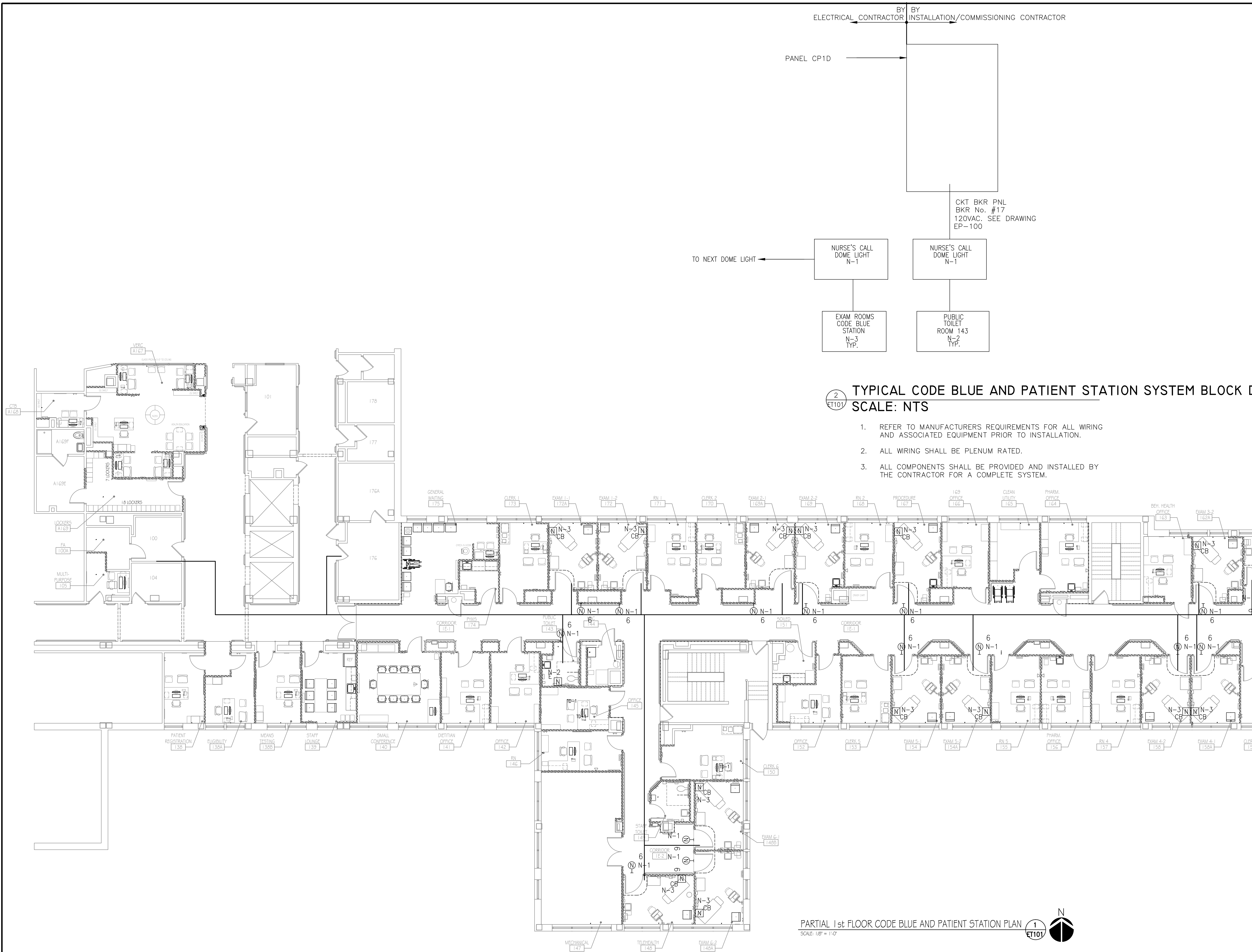
ET-100

Dwg. 53 of 58

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



GENERAL NOTES

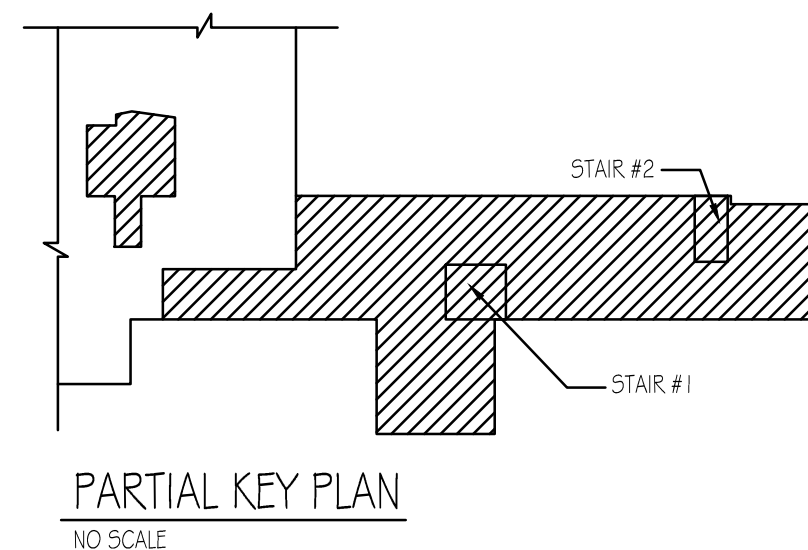
1. INSTALLATION/COMMISSIONING CONTRACTOR TO INSTALL AND COMMISSION ANY AND ALL OTHER COMPONENTS AND WIRING NOT SHOWN TO MAKE A COMPLETE AND FUNCTIONING OPERATING SYSTEM.
2. VA TO PROVIDE ALL CODE BLUE SWITCHES FOR EXAM ROOMS AND PROCEDURE ROOM. CONTRACTOR TO PROVIDE NECESSARY CONDUIT AND CABLING TO THE FIRE ALARM SYSTEM. VERIFY WITH SIMPLEX ALL NECESSARY COMPONENTS.
3. CONTRACTOR SHALL INSTALL STANDALONE TOILET PULL CORD STATION, CORRIDOR LIGHT AND OTHER NECESSARY STANDALONE COMPONENTS
4. CONTRACTOR SHALL VERIFY LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND EQUIPMENT SCHEDULES

LEGEND

- ① x CODE BLUE AND PATIENT CALL STATION.
CB = CODE BLUE WITH STAFF ASSIST STATION. MTD 5'-0" AFF UNLESS NOTED OTHERWISE.
E = PULL CORD MTD 3'-0" AFF FOR TOILET LOCATION.
- 2 ② DOME LIGHT STATION.
2 = DOME LIGHT (SUFFIX INDICATES No OF LAMP) MTD 6" ABOVE DOOR.
D = CORRIDOR DOME LIGHT.
I = AUXILIARY INTERSECTIONAL DOME LIGHT.

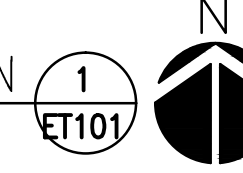
TYPICAL CODE BLUE AND PATIENT STATION SYSTEM BLOCK DIAGRAM SCALE: NTS

1. REFER TO MANUFACTURERS REQUIREMENTS FOR ALL WIRING AND ASSOCIATED EQUIPMENT PRIOR TO INSTALLATION.
2. ALL WIRING SHALL BE PLENUM RATED.
3. ALL COMPONENTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR FOR A COMPLETE SYSTEM.

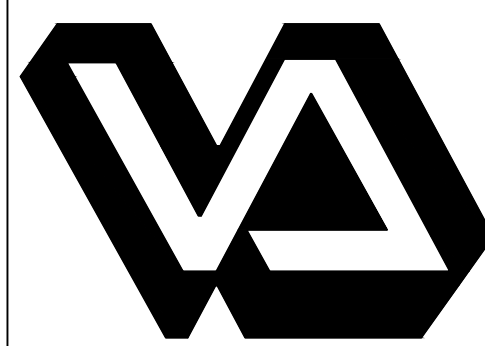


PARTIAL KEY PLAN
NO SCALE

PARTIAL 1st FLOOR CODE BLUE AND PATIENT STATION PLAN
SCALE: 1/8" = 1'-0"



BIDDING DOCUMENTS	03/27/2013
Revisions	Date



VA Northern Indiana
Health Care System,
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2121 Lake Ave., Fort Wayne
IN 46805

CONSULTANTS:
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Fort Wayne, Indiana 46803

ARCHITECT/ENGINEERS:



Approved: Medical Center Director
NAME: _____
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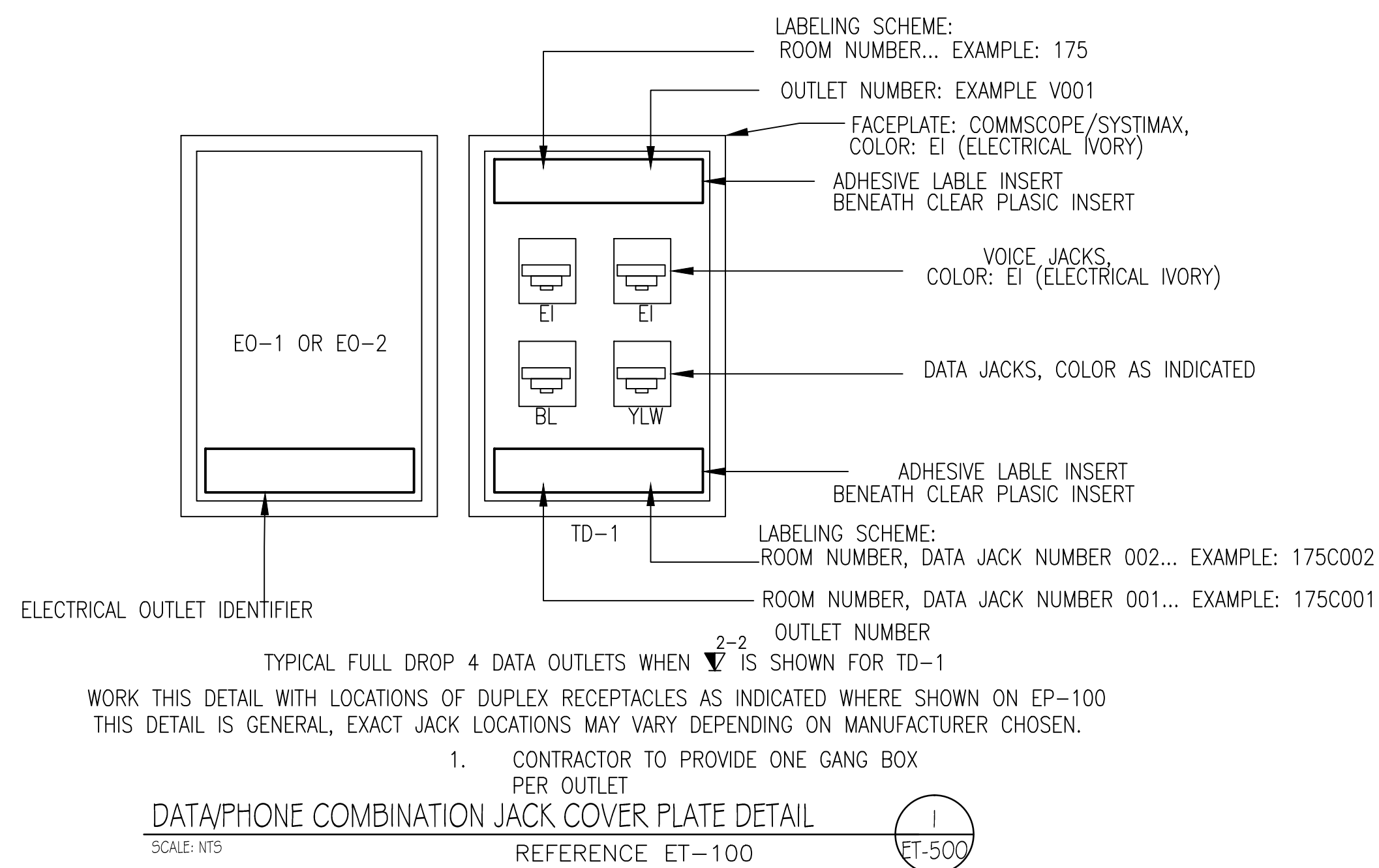
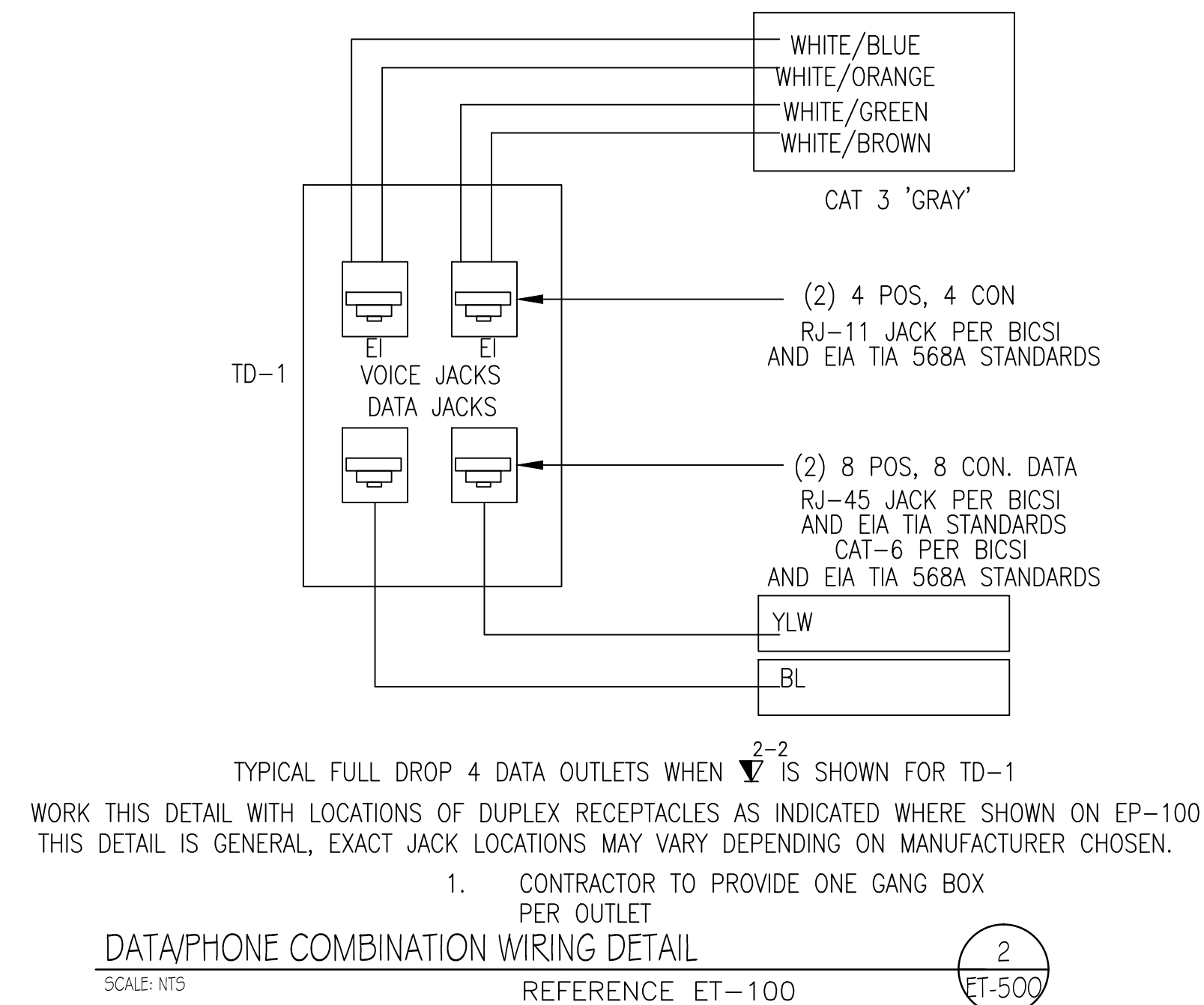
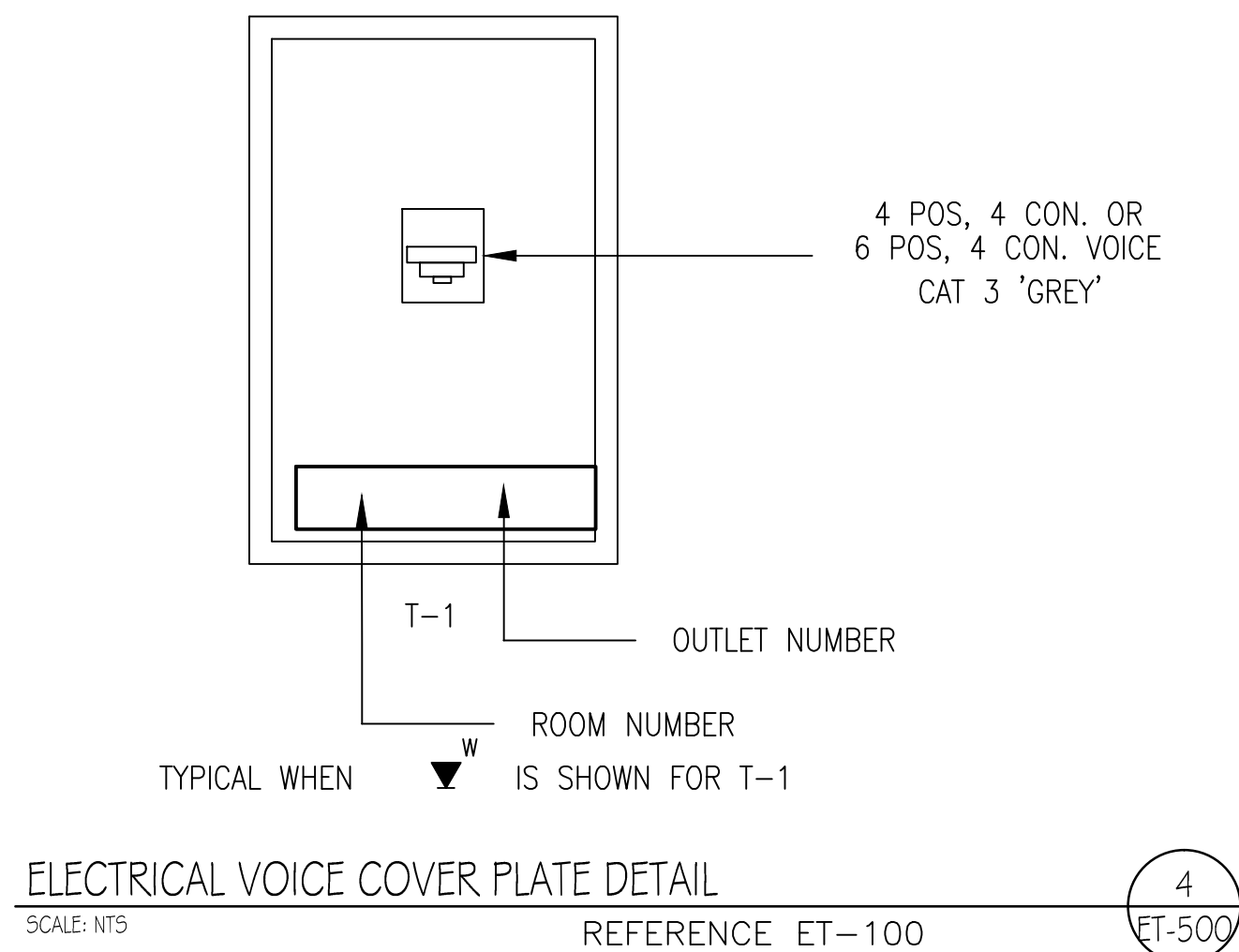
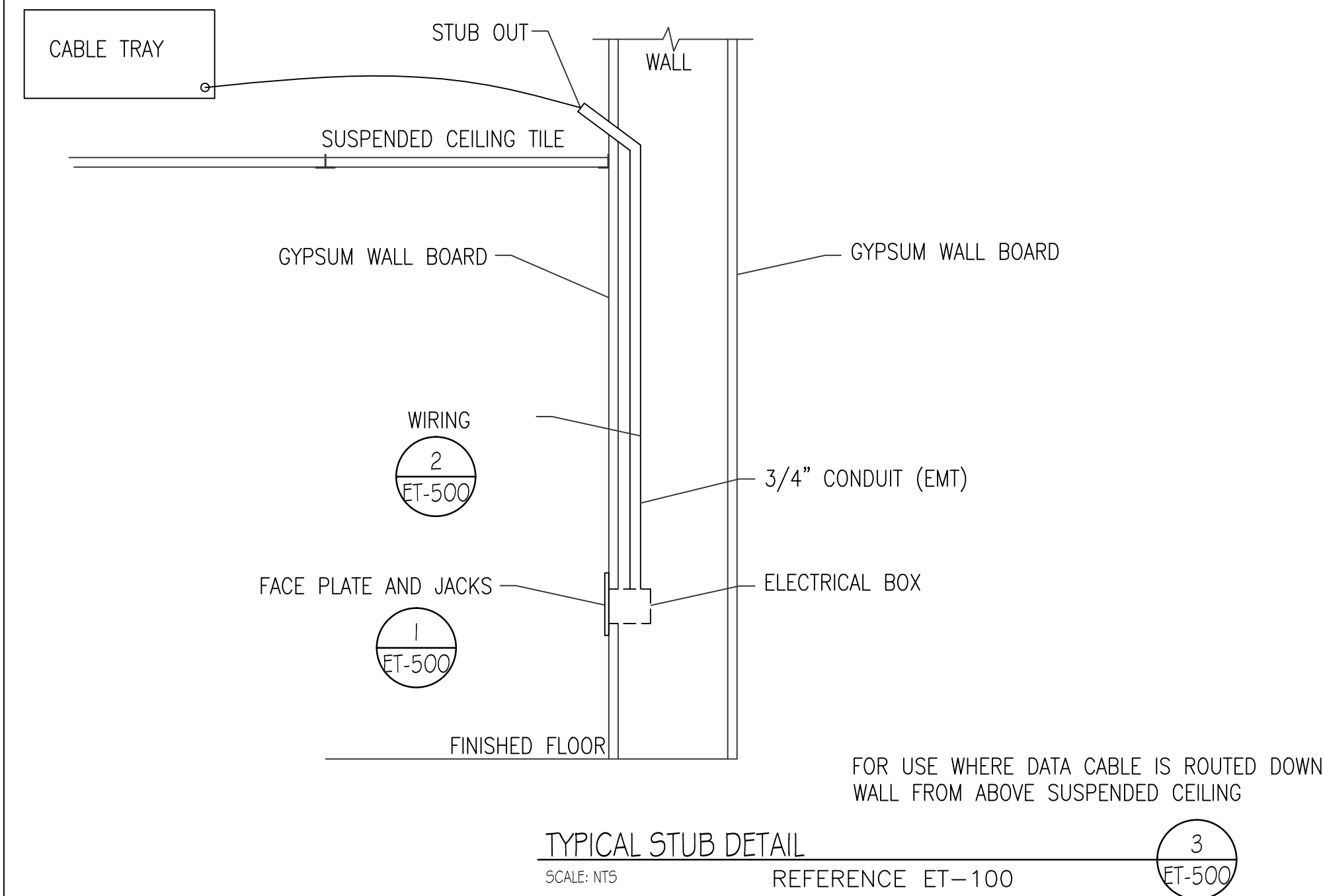
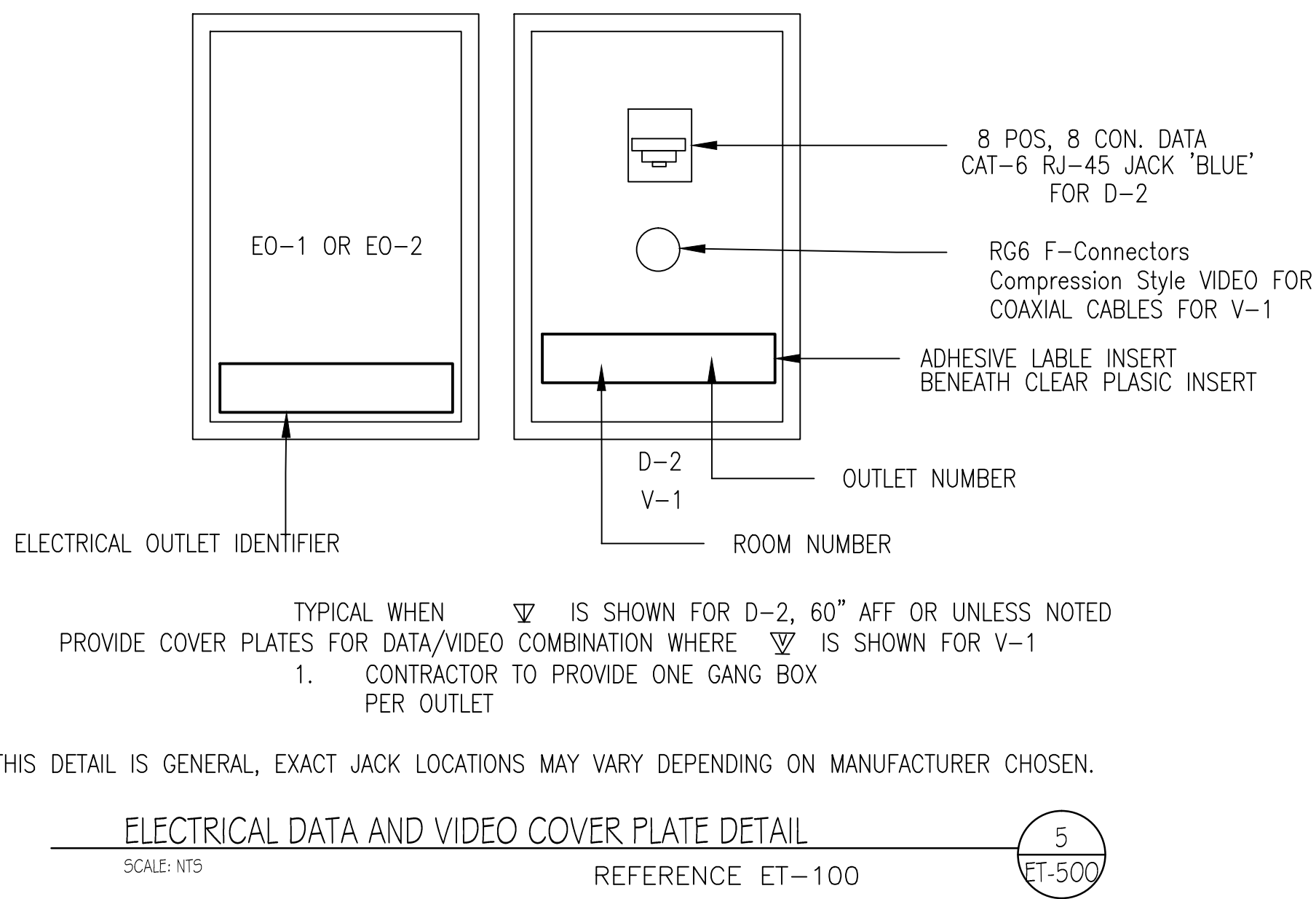
Drawing Title
ELECTRICAL CODE BLUE AND PATIENT STATION
Approved: Engineering Service
NAME: _____ SIGNATURE: _____
Approved: Project Director
NAME: _____ SIGNATURE: _____

Project Title
Renovate First Floor East Wing
for PACT
Location
2121 Lake Ave., Fort Wayne, IN 46805
Date
03/27/2013

Project Number
610A4-12-107
Building Number
01
Drawing Number
ET-101
Dwg. 54 of 58

Office of
Construction
and Facilities
Management
Department of
Veterans Affairs

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot



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SIGNATURE: _____

Drawing Title
ELECTRICAL DATA / COMMUNICATION DETAILS
Approved: Engineering Service
NAME: _____ SIGNATURE: _____
Approved: Project Director
NAME: _____ SIGNATURE: _____

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Drawn
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Project Number
610A4-12-107
Building Number
01
Drawing Number
ET-500
Dwg 55 of 58

Office of
Construction
and Facilities
Management



1
2
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5
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9

three inches = one foot
6"

one and one half inches = one foot
18"

one inch = one foot
12"

three quarters inch = one foot
9"

one half inch = one foot
6"

three eighths inch = one foot
4 1/2"

one quarter inch = one foot
3"

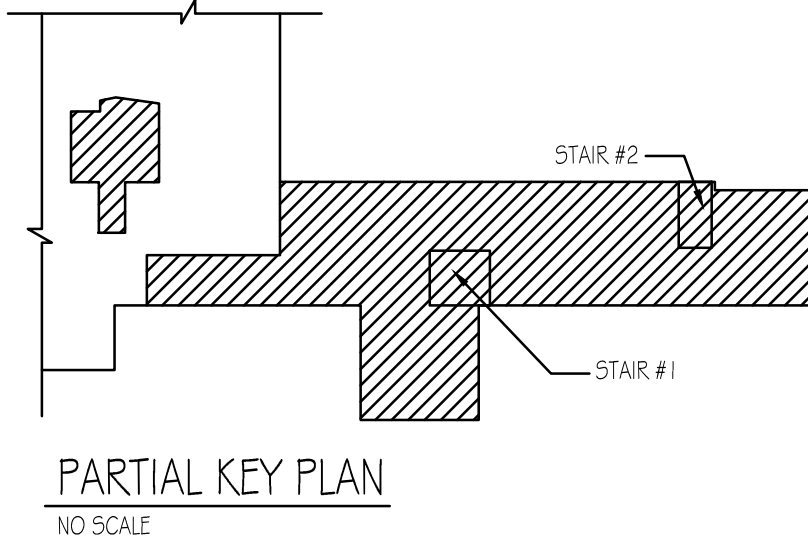
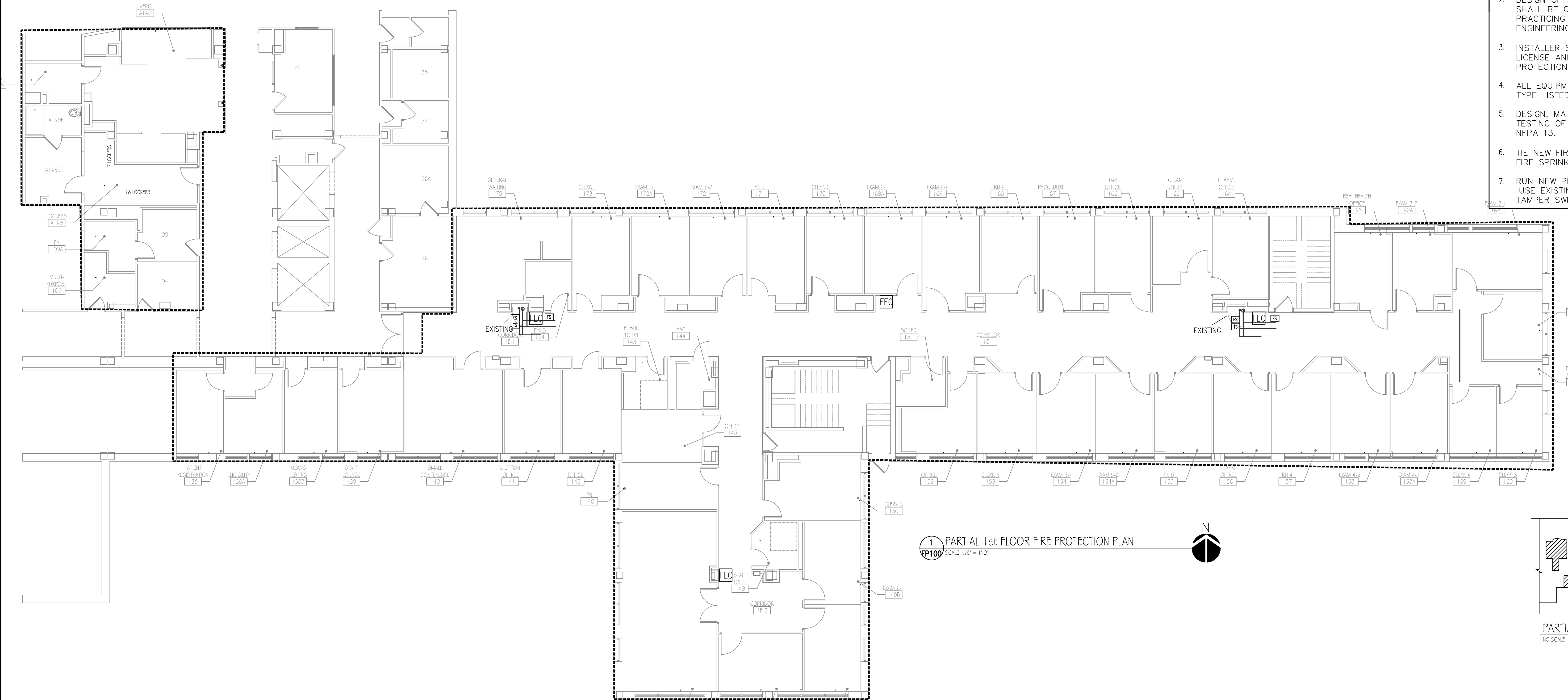
one eighth inch = one foot
1 1/2"

EQUIPMENT NOTES	
NO	DESCRIPTION
1	SPRINKLER STAND PIPE HEADS - 1" CONNECTIONS - CHROME RECESS QUICK RESPONSE TYPE
2	PIPING AND FITTINGS SHALL BE IN ACCORDANCE WITH NFPA 14. BLACK STEEL, SCHEDULE 10 MINIMUM.
3	PIPE HANGERS AND SUPPORTS TO CONFORM TO NFPA 14.
4	WET SYSTEM CONTROL VALVE SHALL BE UL LISTED AN FM APPROVED FOR FIRE PROTECTION INSTALLATIONS WITH MINIMUM 175 PSIG RATING.
5.	SPRINKLER HEADS TO BE QUICK RESPONSE TYPE.



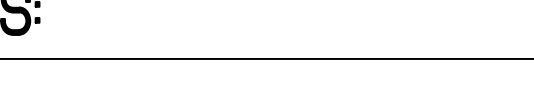

SPECIFICATIONS	
	DIVISION 21- FIRE SUPPRESSION
21 05 11	Common Work Results for Fire Suppression
21 12 00	Fire-Suppression Standpipes
21 13 13	Wet-Pipe Sprinkler Systems

GENERAL NOTES	
1. CONTRACTOR SHALL PROCURE, CONSTRUCT AND COMMISSION INTEGRATED FIRE PROTECTION SYSTEM PER THE LISTED SPECIFICATIONS AND GENERAL INTENTION OF SERVING A HOSPITAL BUILDING IN COMPLIANCE WITH ALL THE CODES AND REQUIREMENTS.	

- NOTES**
- CONTRACTOR SHALL DESIGN, CONSTRUCT AND COMMISSION AN INTEGRATED FIRE PROTECTION SYSTEM COMPLETE WITH ANNUNCIATION AND ALARMS IN COMPLIANCE WITH NFPA CODES AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: CONTRACTOR TO DEFINE REQUIRED ZONES, SPRINKLER LOCATIONS AND ALL OTHER DEVICES PER REGULATIONS AND SPECIFICATIONS.
 - HAZARD CLASSIFICATION OF THE BUILDING AND SPECIFIC AREAS BASED ON ARCHITECTURAL DRAWINGS. FOR DUAL USE OR MULTI-ROLE AREAS USE STRICTER OF THE APPLICABLE CLASSIFICATIONS.
 - SPRINKLER, TESTING AND DRAIN PIPING INCLUDING FLOW SWITCHES, ISOLATION VALVES, TAMPER SWITCH, PRESSURE GAUGE AND OTHER COMPONENTS.
 - FIRE EXTINGUISHER CABINETS (FEC) TO BE PROVIDED IN EXISTING SPACES AS SHOWN ON THE DRAWINGS.
 - IDENTIFICATION SIGNS AND HYDRAULIC PLACARDS PER NFPA 14.
 - FREEZE PROTECTION FEATURES SHALL BE INCORPORATED AS REQUIRED.
 - FIRE ALARM AND ANNUNCIATION SYSTEM SHOWN ON ES1.8.
 - DESIGN OF SPRINKLER SYSTEM AND SHOP DRAWINGS SHALL BE COMPLETED BY A LICENSED ENGINEER PRACTICING IN THE FIELD OF FIRE PROTECTION ENGINEERING
 - INSTALLER SHALL POSSESS A VALID STATE CONTRACTOR'S LICENSE AND BE TRAINED IN WET SYSTEM FIRE PROTECTION INSTALLATIONS.
 - ALL EQUIPMENT AND DEVICES SHALL BE OF A MAKE AND TYPE LISTED BY UL AND APPROVED BY FM
 - DESIGN, MATERIALS, EQUIPMENT, INSTALLATION AND TESTING OF THE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13.
 - TIE NEW FIRE SPRINKLER PIPING WITH EXISTING 2 1/2" FIRE SPRINKLER PIPING LOCATED IN CORRIDOR.
 - RUN NEW PIPING TO NEW 1ST FLOOR EAST WING. USE EXISTING CONTROL VALVE, FLOW SWITCH AND TAMPER SWITCH



BIDDING DOCUMENTS FULLY SPRINKLERED

		 VA Northern Indiana Health Care System, Fort Wayne 2121 Lake Ave., Fort Wayne IN 46805	CONSULTANTS: USFin Development, LLC 1105 West Weir Street Litchfield, Illinois 62056 Viridian Architectural Design, Inc. 2020 East Washington Blvd, Suite 200 Fort Wayne, Indiana 46803		ARCHITECT/ENGINEERS:  AMERICAN STRUCTUREPOINT INC. 7280 SHADELAND STATION INDIANAPOLIS, IN 46256-3967 TEL 317.547.5580 FAX 317.543.0270 www.structurepoint.com  enertronics Engineering Corporation The Fairmont Building 92415 Calumet Ave, Suite 205, Munster, IN 46321 (219) 836-2120 Fax (219) 836-1129	Approved: Medical Center Director NAME: _____ SIGNATURE: _____ Approved: Medical Center Associate Director NAME: _____ SIGNATURE: _____	Drawing Title 1ST FLOOR FIRE PROTECTION PLANS AND NOTES	Project Title Renovate First Floor East Wing for PACT	Project Number 610A4-12-107 Building Number 01	Office of Construction and Facilities Management  Department of Veterans Affairs	
BIDDING DOCUMENTS Revisions	03/27/2013 Date:					Approved: Engineering Service NAME: _____ SIGNATURE: _____ Approved: Project Director NAME: _____ SIGNATURE: _____	Location 2121 Lake Ave., Fort Wayne, IN 46805	Date 03/27/2013	Checked DR	Drawn D5	Drawing Number FP-100 Dwg. 56 of 58

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

INPUT DEVICE	1. Sound general building alarm for Other and High Rise (non-Health Care). See Section 7.2.1	2. Notify necessary staff for response for Health Care and High Rise (non-Health Care). Alarm signal may be different on different floors)	3. Notify Fire Department.	4. Initiate supervisory signal to a 24-hour manned point for immediate response.	5. Close smoke barrier doors on the floor.	6. Close dampers.	7. Shut down air handler.	8. Recall elevator.	9. Initiate elevator shut down and disconnect elevator power.	10. Open locked egress doors.
Duct Smoke Detector*				X		X	X			
Area Smoke Detector*	X	X	X		X	X				X
Door Release Smoke Detector*	X	X	X					X		X
Elevator Smoke Detector*	X	X	X					X		X
Manual Pull Station	X	X	X		X					
Elevator Machine Room Heat Detector	X	X	X		X				X	
Sprinkler Waterflow / Pressure Switch	X	X	X		X					X
Water Control Valve Tamper				X						

*While NFPA 101 does not require some detectors to notify building occupants, VA requires all smoke detectors, other than duct smoke detectors, to notify building occupants.

- GENERAL NOTES
- 1

SEE SHEET EP-100 FOR POWER PLANS
- 2

SEE SHEET EL-100 FOR LIGHTING PLAN
- 3

SEE SHEET G1004 FOR SYMBOLS, ABBREVIATIONS AND NOTES
- 4

EXISTING FIRE ALARM SYSTEM FOR THIS FACILITY IS SIMPLEX-GRINNELL. CONTRACTOR TO WORK WITH SIMPLEX-GRINNELL FOR CONNECTIONS TO EXISTING FIRE ALARM SYSTEM. PANEL LOCATIONS ARE LOCATED IN THE ROOM 100 AND 101A.
- 5

THE INSTALLATION/COMMISSIONING CONTRACTOR SHALL BE RESPONSIBLE TO ADD EXPANSION CARDS, BATTERIES, ETC. TO INCORPORATE NEW DEVICES. THE INSTALLATION/COMMISSIONING CONTRACTOR SHALL REPROGRAM, TEST AND CERTIFY FIRE ALARM SYSTEM.
- 6

ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL DEVICES FOR A COMPLETE AND OPERABLE FIRE ALARM SYSTEM.
- 7

ALL CABLEING AND TIE-INS TO FIRE ALARM SYSTEM SHALL BE INSTALLED BY INSTALLATION/COMMISSIONING CONTRACTOR.
- 8

FIRE ALARMS SHALL MEET THE REQUIREMENTS OF NFPA 72 BASED ON ROOM SIZES. IT IS THE CONTRACTORS RESPONSIBILITY TO ADD ADDITIONAL STROBE LIGHTS AS REQUIRED TO MEET NFPA 72.
- 9

ALL NEW FIRE ALARM DEVICES SHALL BE ADDRESSABLE AND COMPATIBLE WITH THE EXISTING SYSTEM
- 10

UPON ACTIVATION OF SMOKE DETECTOR ON EITHER SIDE OF INTERIOR, MAGNETIC DOOR HOLDER OPENS SHALL BE RELEASED.
- 11

FIRE ALARM SYSTEM SHALL ALSO INCLUDE SMOKE AND HEAT DETECTORS, HORNS, STROBES, FIRE ALARM PULL STATIONS, FIRE ALARM ANNUNCIATOR, DOOR HOLDERS, FLOW AND TAMPER SWITCHES AND CONTROL VALVES.
- 12

ALL VISUAL ALARMS SHALL BE INSTALLED A MINIMUM OF 80" ABOVE FINISHED FLOOR TO BOTTOM OF TRIM PLATE.
- 13

FIRE ALARM PULL BOXES LOCATED 5'-0" WITHIN ALL EXIT DOOR

- LEGEND
- S

SMOKE DETECTOR - PHOTOELECTRIC TYPE
- S

ADA HORN/STROBE AT 80" AFF
- S

STROBE AT 80" AFF
- S

DUCT MOUNTED SMOKE DETECTOR
- F A A

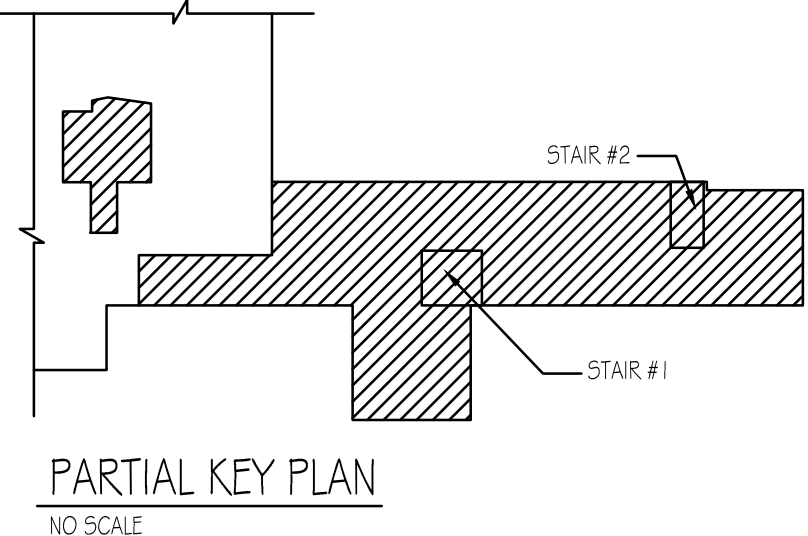
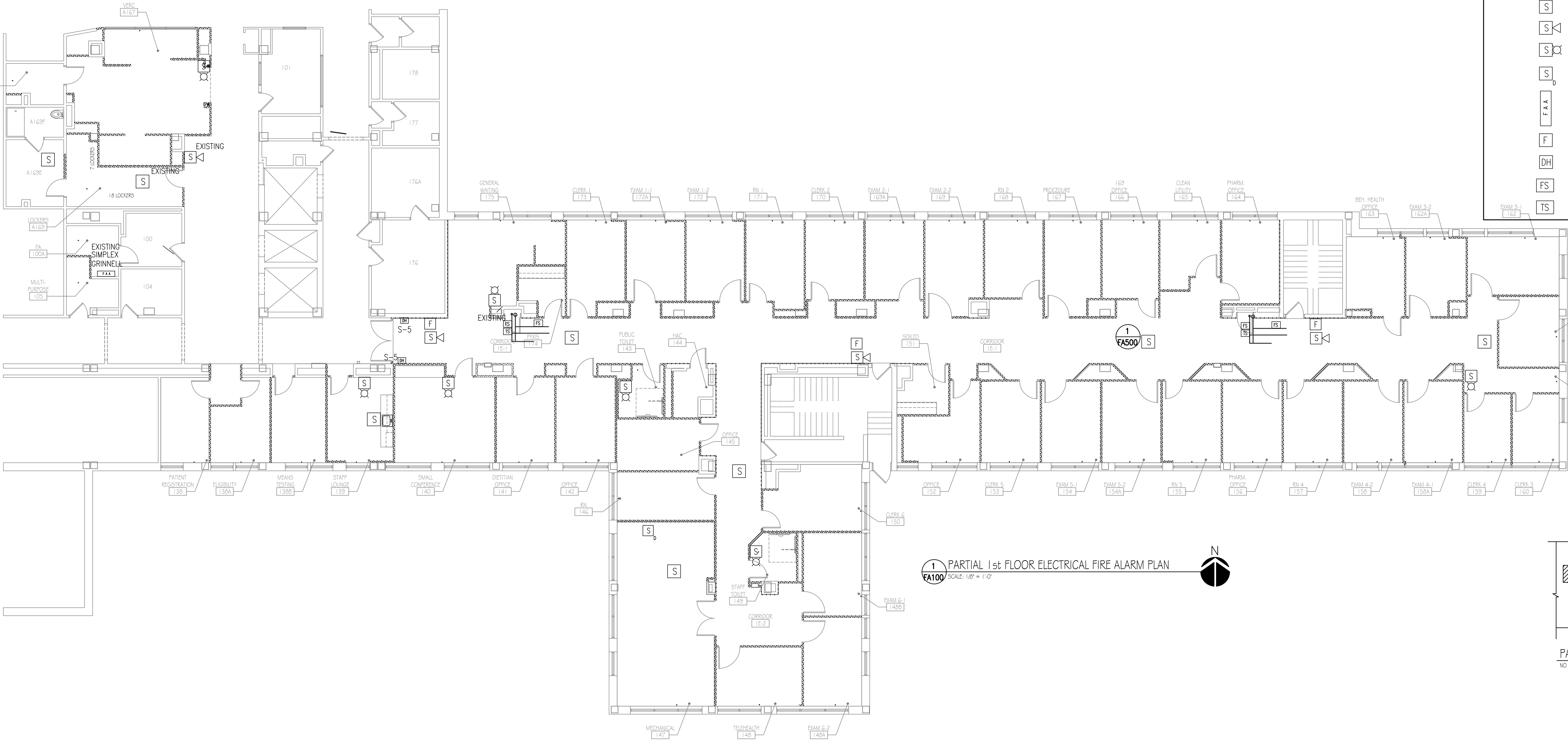
EXISTING FIRE ALARM ANNUNCIATOR
- F

FIRE ALARM PULL STATION
- DH

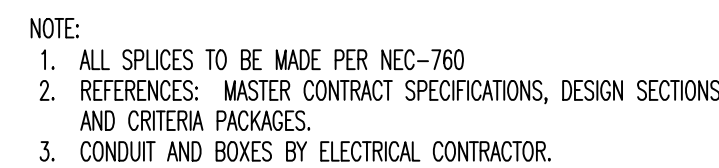
MAGNETIC DOOR HOLDER
- FS

FLOW SWITCH
- TS

TAMPER SWITCH







<div>BIDDING DOCUMENTS</div> <div>Revisions</div>		<div>03/27/2013</div> <div>Date</div>	<div>VA Northern Indiana Health Care System, Fort Wayne</div> <div>2121 Lake Ave., Fort Wayne IN 46805</div>	<div>CONSULTANTS:</div> <div>USFin Development, LLC</div> <div>1105 West Weir Street Litchfield, Illinois 62056</div> <div>Viridian Architectural Design, Inc.</div> <div>2020 East Washington Blvd, Suite 200 Fort Wayne, Indiana 46803</div>	<div>ARCHITECT/ENGINEERS:</div> <div>AMERICAN STRUCTUREPOINT INC.</div> <div>7280 SHADELAND STATION INDIANAPOLIS, IN 46256-3967 TEL 317.547.5580 FAX 317.543.0270 www.structurepoint.com</div> <div>Engineering Corporation The Fairmont Building 92415 Calumet Ave., Suite 205, Munster, IN 46321 (219) 836-2120 Fax (219) 836-1129</div>	<div>Approved: Medical Center Director</div> <div>NAME: _____</div> <div>SIGNATURE: _____</div> <div>Approved: Medical Center Associate Director</div> <div>NAME: _____</div> <div>SIGNATURE: _____</div>	<div>Drawing Title</div> <div>1ST FLOOR FIRE ALARM PLAN AND NOTES</div> <div>Approved: Engineering Service</div> <div>NAME: _____ SIGNATURE: _____</div> <div>Approved: Project Director</div> <div>NAME: _____ SIGNATURE: _____</div>	<div>Project Title</div> <div>Renovate First Floor East Wing for PACT</div> <div>Location</div> <div>2121 Lake Ave., Fort Wayne, IN 46805</div> <div>Date</div> <div>03/27/2013</div> <div>Checked</div> <div>JS</div> <div>Drawn</div> <div>D5</div>	<div>Project Number</div> <div>610A4-12-107</div> <div>Building Number</div> <div>01</div> <div>Drawing Number</div> <div>FA-100</div> <div>Dwg. 57 of 58</div>	<div>Office of Construction and Facilities Management</div> <div>Department of Veterans Affairs</div>
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SMOKE DETECTOR (CEILING MOUNTED)
SCALE: NTS REFERENCE FA-100



BIDDING DOCUMENTS FULLY SPRINKLERED

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BIDDING DOCUMENTS		03/27/2013														
Revisions:		Date:														